

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/568,134
Source: IFWP
Date Processed by STIC: 2/28/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

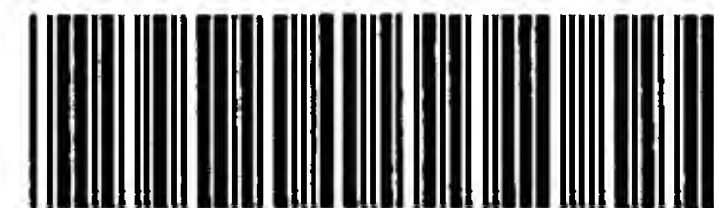
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebs/efs/downloads/documents.htm>**> , **EFS Submission User Manual - ePAVE**)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWP

RAW SEQUENCE LISTING

DATE: 02/28/2006

PATENT APPLICATION: US/10/568,134

TIME: 13:42:17

Input Set : E:\03-770-C 700.020US Sequence Listing.txt

Output Set: N:\CRF4\02282006\J568134.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.
 4 Radka, Susan
 5 Zinnen, Shawn
 6 Jadhavi, Vasant
 7 McSwiggen, James
 8 Vaish, Narendra
 10 <120> TITLE OF INVENTION: Detection and Quantitation of Nucleic Acid Molecules in
 11 Biological Samples
 13 <130> FILE REFERENCE: 700/020 (MBHB03-770-B)
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/568,134
 C--> 16 <141> CURRENT FILING DATE: 2006-02-10
 18 <150> PRIOR APPLICATION NUMBER: US 60/497,222
 19 <151> PRIOR FILING DATE: 2003-08-22
 21 <150> PRIOR APPLICATION NUMBER: US 60/543,784
 22 <151> PRIOR FILING DATE: 2004-02-11
 24 <160> NUMBER OF SEQ ID NOS: 24
 26 <170> SOFTWARE: PatentIn version 3.3
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 21
 30 <212> TYPE: RNA DNA (see p. 2)
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Description of Artificial Sequence: siNA sense region
 37 <220> FEATURE:
 38 <221> NAME/KEY: misc_feature
 39 <222> LOCATION: (1)..(1)
 40 <223> OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety
 42 <220> FEATURE:
 43 <221> NAME/KEY: misc_feature
 44 <222> LOCATION: (1)..(1)
 45 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 47 <220> FEATURE:
 48 <221> NAME/KEY: misc_feature
 49 <222> LOCATION: (3)..(3)
 50 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 52 <220> FEATURE:
 53 <221> NAME/KEY: misc_feature
 54 <222> LOCATION: (5)..(5)
 55 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 57 <220> FEATURE:
 58 <221> NAME/KEY: misc_feature
 59 <222> LOCATION: (7)..(10)
 60 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro

pp 1-6
 Does Not Comply
 Corrected Diskette Needed

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*For a combined DNA/RNA**sequence, use**<212> DNA and explain in <220>-<223>**<212> RNA would need to be changed to <212> DNA to accommodate thymidine.**would be shown in a combined DNA/RNA sequence*

62 <220> FEATURE:
 63 <221> NAME/KEY: misc_feature
 64 <222> LOCATION: (12)..(15)
 65 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 67 <220> FEATURE:
 68 <221> NAME/KEY: misc_feature
 69 <222> LOCATION: (17)..(19)
 70 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 72 <220> FEATURE:
 73 <221> NAME/KEY: misc_feature
 74 <222> LOCATION: (20)..(20)
 75 <223> OTHER INFORMATION: n stands for thymidine

77 <220> FEATURE:
 78 <221> NAME/KEY: misc_feature
 79 <222> LOCATION: (21)..(21)
 80 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety

Fiji: "n" can only represent a single nucleotide

W--> 83 ugugcacuuc gcuucaccun (n)

86 <210> SEQ ID NO: 2

87 <211> LENGTH: 23

88 <212> TYPE: RNA

89 <213> ORGANISM: Artificial Sequence

91 <220> FEATURE:

92 <223> OTHER INFORMATION: Description of Artificial Sequence: Chol-7/siNA sense region

95 <220> FEATURE:

96 <221> NAME/KEY: misc_feature

97 <222> LOCATION: (1)..(1)

98 <223> OTHER INFORMATION: n stands for thymidine with 5'bifunctional cholesterol*because of this, change to <212> DNA and explain in*

conjugate

100 <220> FEATURE:
 101 <221> NAME/KEY: misc_feature
 102 <222> LOCATION: (3)..(3)
 103 <223> OTHER INFORMATION: inverted deoxyabasic moiety
 105 <220> FEATURE:
 106 <221> NAME/KEY: misc_feature
 107 <222> LOCATION: (3)..(3)
 108 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 110 <220> FEATURE:
 111 <221> NAME/KEY: misc_feature
 112 <222> LOCATION: (5)..(5)
 113 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 115 <220> FEATURE:
 116 <221> NAME/KEY: misc_feature
 117 <222> LOCATION: (7)..(7)
 118 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 120 <220> FEATURE:
 121 <221> NAME/KEY: misc_feature
 122 <222> LOCATION: (9)..(12)
 123 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 125 <220> FEATURE:

<220>-<223> section

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Input Set : E:\03-770-C 700.020US Sequence Listing.txt

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126 <221> NAME/KEY: misc_feature
 127 <222> LOCATION: (14)..(17)
 128 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 130 <220> FEATURE:
 131 <221> NAME/KEY: misc_feature
 132 <222> LOCATION: (19)..(21)
 133 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 135 <220> FEATURE:
 136 <221> NAME/KEY: misc_feature
 137 <222> LOCATION: (22)..(23)
 138 <223> OTHER INFORMATION: n stands for thymidine *seq. 2*
 140 <220> FEATURE:
 141 <221> NAME/KEY: misc_feature
 142 <222> LOCATION: (23)..(23)
 143 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
 145 <400> SEQUENCE: 2
 W--> 146 **naugugcacu ucgcucacc unn** 23
 149 <210> SEQ ID NO: 3
 150 <211> LENGTH: 27
 151 <212> TYPE: RNA *DNA and explain*
 152 <213> ORGANISM: Artificial Sequence
 154 <220> FEATURE:
 155 <223> OTHER INFORMATION: Description of Artificial Sequence: Chol-trigal 7/siNA sense
 156 region
 158 <220> FEATURE:
 159 <221> NAME/KEY: misc_feature *<2127 DNA and explain*
 160 <222> LOCATION: (1)..(1)
 161 <223> OTHER INFORMATION: n stands for thymidine with 5'bifunctional cholesterol
 conjugate
 163 <220> FEATURE:
 164 <221> NAME/KEY: misc_feature
 165 <222> LOCATION: (3)..(3)
 166 <223> OTHER INFORMATION: inverted deoxyabasic moiety
 168 <220> FEATURE:
 169 <221> NAME/KEY: misc_feature
 170 <222> LOCATION: (3)..(3)
 171 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 173 <220> FEATURE:
 174 <221> NAME/KEY: misc_feature
 175 <222> LOCATION: (5)..(5)
 176 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 178 <220> FEATURE:
 179 <221> NAME/KEY: misc_feature
 180 <222> LOCATION: (7)..(7)
 181 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 183 <220> FEATURE:
 184 <221> NAME/KEY: misc_feature
 185 <222> LOCATION: (9)..(12)
 186 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 188 <220> FEATURE:

RAW SEQUENCE LISTING

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Output Set: N:\CRF4\02282006\J568134.raw

189 <221> NAME/KEY: misc_feature
 190 <222> LOCATION: (14)..(17)
 191 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 193 <220> FEATURE:
 194 <221> NAME/KEY: misc_feature
 195 <222> LOCATION: (19)..(21)
 196 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 198 <220> FEATURE:

199 <221> NAME/KEY: misc_feature
 200 <222> LOCATION: (22)..(23)
 201 <223> OTHER INFORMATION: n stands for thymidine
 203 <220> FEATURE:

204 <221> NAME/KEY: misc_feature
 205 <222> LOCATION: (24)..(24)
 206 <223> OTHER INFORMATION: inverted deoxyabasic moiety
 208 <220> FEATURE:

209 <221> NAME/KEY: misc_feature
 210 <222> LOCATION: (25)..(25)
 211 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 213 <220> FEATURE:

214 <221> NAME/KEY: misc_feature
 215 <222> LOCATION: (26)..(26)
 216 <223> OTHER INFORMATION: n stands for thymidine
 218 <220> FEATURE:

219 <221> NAME/KEY: misc_feature
 220 <222> LOCATION: (27)..(27)
 221 <223> OTHER INFORMATION: n stands for tri-N-acetyl galactosamine conjugate
 223 <220> FEATURE:

224 <221> NAME/KEY: misc_feature
 225 <222> LOCATION: (27)..(27)
 226 <223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety
 228 <400> SEQUENCE: 3

W--> 229 naugugcau ucgcucacc unnnann

27

232 <210> SEQ ID NO: 4

233 <211> LENGTH: 21

234 <212> TYPE: RNA

235 <213> ORGANISM: Artificial Sequence

237 <220> FEATURE:

238 <223> OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region

241 <220> FEATURE:

242 <221> NAME/KEY: misc_feature

243 <222> LOCATION: (1)..(3)

244 <223> OTHER INFORMATION: 2'-O-methyl

246 <220> FEATURE:

247 <221> NAME/KEY: misc_feature

248 <222> LOCATION: (4)..(4)

249 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro

251 <220> FEATURE:

252 <221> NAME/KEY: misc_feature

FYI: "n" can only
 represent a
 single
 nucleotide

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RAW SEQUENCE LISTING

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Input Set : E:\03-770-C 700.020US Sequence Listing.txt

Output Set: N:\CRF4\02282006\J568134.raw

253 <222> LOCATION: (5)..(8)
 254 <223> OTHER INFORMATION: 2'-O-methyl
 256 <220> FEATURE:
 257 <221> NAME/KEY: misc_feature
 258 <222> LOCATION: (9)..(9)
 259 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 261 <220> FEATURE:
 262 <221> NAME/KEY: misc_feature
 263 <222> LOCATION: (10)..(13)
 264 <223> OTHER INFORMATION: 2'-O-methyl
 266 <220> FEATURE:
 267 <221> NAME/KEY: misc_feature
 268 <222> LOCATION: (14)..(14)
 269 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 271 <220> FEATURE:
 272 <221> NAME/KEY: misc_feature
 273 <222> LOCATION: (15)..(15)
 274 <223> OTHER INFORMATION: 2'-O-methyl
 276 <220> FEATURE:
 277 <221> NAME/KEY: misc_feature
 278 <222> LOCATION: (16)..(16)
 279 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 281 <220> FEATURE:
 282 <221> NAME/KEY: misc_feature
 283 <222> LOCATION: (17)..(17)
 284 <223> OTHER INFORMATION: 2'-O-methyl
 286 <220> FEATURE:
 287 <221> NAME/KEY: misc_feature
 288 <222> LOCATION: (18)..(18)
 289 <223> OTHER INFORMATION: 2'-deoxy-2'-fluoro
 291 <220> FEATURE:
 292 <221> NAME/KEY: misc_feature
 293 <222> LOCATION: (19)..(19)
 294 <223> OTHER INFORMATION: 2'-O-methyl
 296 <220> FEATURE:
 297 <221> NAME/KEY: misc_feature
 298 <222> LOCATION: (20)..(20)
 299 <223> OTHER INFORMATION: Phosphorothioate 3'-Internucleotide Linkage
 301 <220> FEATURE:
 302 <221> NAME/KEY: misc_feature
 303 <222> LOCATION: (21)..(21)
 304 <223> OTHER INFORMATION: n stands for thymidine
 306 <400> SEQUENCE: 4
 W--> 307 **aggugaagcg aagugcacan n**
 310 <210> SEQ ID NO: 5
 311 <211> LENGTH: 10
 312 <212> TYPE: RNA
 313 <213> ORGANISM: Artificial Sequence
 315 <220> FEATURE:

n can only represent a single nucleotide

Please correct these types of errors in subsequent sequences.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/568,134

DATE: 02/28/2006
TIME: 13:42:18

Input Set : E:\03-770-C 700.020US Sequence Listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 20,21
Seq#:2; N Pos. 1,22,23
Seq#:3; N Pos. 1,22,23,24,26,27
Seq#:4; N Pos. 20,21
Seq#:9; N Pos. 19,20
Seq#:10; N Pos. 18,19
Seq#:11; N Pos. 16,17
Seq#:12; N Pos. 12,13
Seq#:13; N Pos. 19,20
Seq#:14; N Pos. 18,19
Seq#:15; N Pos. 16,17
Seq#:16; N Pos. 14,15
Seq#:17; N Pos. 20,21
Seq#:18; N Pos. 20,21
Seq#:19; N Pos. 20,21
Seq#:20; N Pos. 20,21

VERIFICATION SUMMARY

DATE: 02/28/2006

PATENT APPLICATION: US/10/568,134

TIME: 13:42:18

Input Set : E:\03-770-C 700.020US Sequence Listing.txt

Output Set: N:\CRF4\02282006\J568134.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0